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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,320	07/11/2003	Yasuhiko Takahashi	600630-7US (562399)	8239
	7590 01 <i>/24/</i> 200 STRAUSS HAUER &	EXAMINER		
ONE COMME	_	ULM, JOHN D		
2005 MARKET STREET, SUITE 2200 PHILADELPHIA, PA 19103			ART UNIT PAPER NUMBE	
		1649		
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/24/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application	No.	Applicant(s)			
Office Action Summary		10/618,320		TAKAHASHI ET AL.			
		Examiner		Art Unit			
		John D. Ulm		1649			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) 又	Responsive to communication(s) filed on <u>02 No</u>	ovember 200	6				
		action is non					
′	,						
/—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
		lication					
	<ul> <li>4) ☐ Claim(s) 1-52 and 54 is/are pending in the application.</li> <li>4a) Of the above claim(s) 1-6,9-12,18-22,25-32,38-52 and 54 is/are withdrawn from consideration.</li> </ul>						
	5) Claim(s) <u>8</u> is/are allowed.						
·	·_						
	☑ Claim(s) <u>7,23,24 and 32-37</u> is/are rejected. ☑ Claim(s) <u>13-17</u> is/are objected to.						
	Claim(s) are subject to restriction and/or	r election rea	uirement				
		r election requ	ullerlierit.				
Applicati	on Papers						
	The specification is objected to by the Examiner						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection to the o	drawing(s) be t	neld in abeyance. See	37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correcti	tion is required	if the drawing(s) is obje	ected to. See 37 Cl	FR 1.121(d).		
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2)  Notic 3) Inform	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) 5) 6)	Paper No(s)/Mail Dai	te			

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1) Claims 1 to 52 and 54 are pending in the instant application. Claims 7, 8, 13, 14, 16, 17, 23 and 24 have been amended and claim 53 has been canceled as requested by Applicant in the correspondence filed 02 November of 2006.

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- 2) Any objection or rejection of record that is not expressly repeated in this action has been overcome by Applicant's response and withdrawn.
- 3) The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4) The disclosure is objected to because the last paragraph on page 40 therein contains an embedded hyperlink and/or other form of browser-executable code. Applicant is required to delete the embedded hyperlink and/or other form of browser-executable code. See MPEP § 608.01(p), which states that:

"When a patent application with embedded hyperlinks and/or other forms of browser-executable code issues as a patent (or is published as a patent application publication) and the patent document is placed on the USPTO web page, when the patent document is retrieved and viewed via a web browser, the URL is interpreted as a valid HTML code and it becomes a live web link. When a user clicks on the link with a mouse, the user will be transferred to another web page identified by the URL, if it exists, which could be a commercial web site. USPTO policy does not permit the USPTO to link to any commercial sites since the USPTO exercises no control over the organization, views or accuracy of the information contained on these outside sites. If hyperlinks and/or other forms of browser-executable code are embedded in the text of the patent application, examiners should object to the specification and indicate to applicants that the embedded hyperlinks and/or other forms of browser-executable code are impermissible and require deletion."

Correction is required.

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5) The information disclosure statement filed 17 May of 2006 fails to comply with 37 CFR 1.97(c) because it lacks the fee set forth in 37 CFR 1.17(p). It has been placed in the application file, but the information referred to therein has not been considered.

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- 6) Claims 1 to 6, 9 to 12, 18 to 22, 25 to 32, 38 to 52 and 54 stand withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in the reply filed on 14 February of 2006.
  - 7) Claim 8 is allowable as written.
- 8) Claims 13 to 17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 9) Claims 32 to 37 have been rejoinded with claim 13, from which they properly depend.
- 10) Claims 38 and 39 have not been rejoinded with claim 13 because they do not properly depend from claim 13 or from claim 7, since neither the polynucleotide of claim 7 nor the vector of claim 13 are present in the membrane preparation employed in the process of claims 38 and 39.
- 11) Claims 7, 23 and 24 are rejected under 35 U.S.C. 101 because

  They encompass non-statutory subject matter. These claims encompass a nucleic acid and cell as they occur in nature. Claim 7, for example, encompasses a chromosome

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and an mRNA molecule as they occur in nature. Claims 23 and 24 encompass stem cells as they occur in nature.

Claim 24 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. This claim is drawn to a "therapeutic or prophylactic agent against a disease caused by a G protein-coupled receptor mediated signal transduction abnormality, wherein an active ingredient of the agent is a polynucleotide" encoding a G protein of the instant invention.

Claim 24 is not enabled for at least two reasons. First, there is absolutely not description in the instant specification of any disease or disorder that has been proven to be the result of an abnormality in the expression of a G protein of the instant invention. Therefore, before one could produce the claimed composition, one must first discover the identity of the disease or disorder to be treated. Second, one of ordinary skill would not reasonably expect the exogenous administration of a nucleic acid encoding all or part of a G protein of the instant invention to a mammal to have a clinical effect because the art of gene therapy has not developed to the level of a routine practice in the clinical arts. It is noted that several genetic defects associated with diseases such as sickle cell anemia and cystic fibrosis are well known in the art, as are the genetic corrections needed to cure these diseases, and yet these diseases have not been successfully treated by gene therapy. A patent is granted for a completed

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invention, not the general suggestion of an idea and how that idea might be developed into the claimed invention. In the decision of *Genentec, Inc, v. Novo Nordisk*, 42 USPQ 2d 100,(CAFC 1997), the court held that:

"[p]atent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable" and that "[t]ossing out the mere germ of an idea does not constitute enabling disclosure". The court further stated that "when there is no disclosure of any specific starting material or of any of the conditions under which a process is to be carried out, undue experimentation is required; there is a failure to meet the enablement requirements that cannot be rectified by asserting that all the disclosure related to the process is within the skill of the art", "[i]t is the specification, not the knowledge of one skilled in the art, that must supply the novel aspects of an invention in order to constitute adequate enablement".

The instant specification is not enabling because one can not following the guidance presented therein and produce and use the claimed pharmaceutical without first making a substantial inventive contribution.

- 13) Claims 32 to 37 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 13.1) These claims are vague and indefinite because there is no antecedent basis for "the G protein effector activity" or "the index value correlating therewith".
- 13.2) Claims 33, 36 and 37 are vague and indefinite because there is no antecedent basis for "the test cell which has not been brought into contact with the test substance".
- 13.3) Claim 37 is vague and indefinite because there is no antecedent basis for "the rate of change in this effector activity or the index value correlating therewith with the rate of change in the effector activity or the index value".

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14) Applicant's arguments with respect to claims 7, 23 and 24 have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John D. Ulm whose telephone number is (571) 272-0880. The examiner can normally be reached on 9:00AM to 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on (571) 272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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